

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of controlling the load in a mobile communication system ~~in a system~~ in which at least one mobile station includes means for utilizing discontinuous transmission, comprising:

transmitting a control signal via a radio path to said at least one mobile station in order to regulate those parameters which the mobile station utilizes for discriminating speech and background noise ~~the parameters indicating how discontinuous transmission should be implemented by said at least one mobile station~~; and

regulating, by regulation means of said at least one mobile station as a response to said control signal, those parameters which the mobile station uses for discriminating speech and background noise ~~indicating how discontinuous transmission should be implemented in~~ such a manner that the at least one mobile station transmits telecommunication signals to the system more seldom or more often, ~~wherein the regulated parameters include at least configuration parameters that are neither noise nor silence parameters.~~

2. (Previously Presented) A method as claimed in claim 1, wherein the control signal is selected in such a manner that said regulation means regulates at least those parameters upon which the at least one mobile station can discriminate between speech conveyed to a microphone and background noise in such a manner that the at least one mobile station interprets noise arriving at the microphone as background noise more often.

3. (Previously Presented) A method as claimed in claims 1 or 2, wherein traffic load in different parts of the mobile communication system is monitored, and said control signal is transmitted to certain mobile stations or mobile stations in a certain area, when traffic load in some part of the system exceeds a predetermined limit, whereby said certain mobile stations or mobile stations in a certain area that have received the control signal regulate their parameters in such a manner that the certain mobile stations or mobile stations in a certain area transmit telecommunication signals to other parts of the system more seldom.

4. (Currently Amended) A mobile communication system comprising:
a mobile exchange;
base stations in a data transmission connection to the mobile exchange;
monitoring means for monitoring load in different parts of the system;
control means responsive to the monitoring means for transmitting, via a radio path, a control signal to certain mobile stations or mobile stations in a certain area in order to regulate those parameters which the mobile stations utilize for discriminating speech and background noise ~~the parameters indicating how discontinuous transmission should be implemented by said mobile stations~~, when the monitoring means indicates that traffic load in some part of the system exceeds a predetermined limit; and
mobile stations in radio connection to the base stations, said mobile stations comprising means for utilizing discontinuous transmission, and regulation means for regulating those parameters which the mobile stations utilize for discriminating speech and background noise ~~parameters of the mobile stations indicating how discontinuous transmission should be implemented~~ in response to receiving the control signal, in such a manner that said mobile stations transmit telecommunication signals to the system more seldom or more often, ~~wherein the regulated parameters include at least configuration parameters that are neither noise nor silence parameters.~~

5. (Previously Presented) A mobile communication system as claimed in claim 4, wherein the monitoring means is arranged to monitor an amount of free traffic capacity of the data transmission connection between at least one base station and mobile exchange belonging to the system, whereby the control means is arranged to transmit said control signal to all those mobile stations from which a traffic connection is in progress via said at least one base station, when the control means indicates that the free traffic capacity is below a predetermined limit value.

6. (Previously Presented) A mobile communication system as claimed in claim 5, wherein said data transmission connection between the base station and the mobile exchange is a packet switched data transmission connection.

7. (Previously Presented) A mobile communication system as claimed in claim 4,

wherein the monitoring means is arranged to monitor an amount of free traffic capacity of a certain base station, whereby the control means is arranged to transmit said control signal to all those mobile stations from which a traffic connection is in progress via said certain base station, when the free traffic capacity is below a predetermined limit value.

8. (Previously Presented) A mobile communication system as claimed in claim 4, wherein the monitoring means is arranged to monitor quality of traffic channels of a certain base station, whereby the control means is arranged to transmit said control signal to all those mobile stations from which a traffic connection is in progress via said certain base station, when the quality of the traffic channels is below a predetermined limit.

9. (Currently Amended) A mobile station comprising:
transmission means and reception means for receiving and transmitting telecommunication signals via a radio path;
a user interface for receiving voice signals;
control means for utilizing discontinuous transmission, whereby the control means comprises signal processing means for processing the voice signals received through the user interface by utilizing parameters, which indicate how speech and background noise should be discriminated ~~discontinuous transmission should be implemented~~, and which are stored in the mobile station, in order to detect speech from the voice signals received through the interface;
detection means for detecting a predetermined control signal received by the reception means via the radio path; and
regulation means, responsive to the detection means, for changing said parameters which indicate how speech and background noise should be discriminated ~~discontinuous transmission should be implemented~~ and which are utilized in speech detection, in such a manner that the signal processing means interprets the voice signals received through the user interface as background noise more seldom or more often, ~~wherein the changed parameters include at least configuration parameters that are neither noise nor silence parameters.~~

10. (Previously Presented) The method of claim 1, wherein the configuration parameters are at least in part associated with a filter.